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EUROPEAN PATENT APPLICATION

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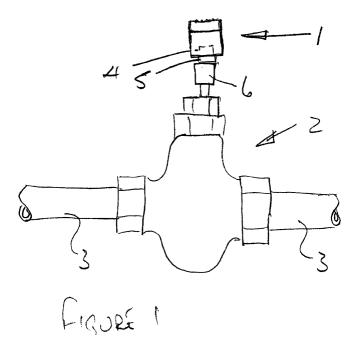
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(54) Leak-noise data logger

(57) A leak-noise data logger (1) comprising an acoustic transducer (4), means for sampling the output of the acoustic transducer; means for measuring the most persistent sampled noise in a monitoring period and means for outputting a ranked indication of the most persistent sampled noise. The leak-noise data logger (1) may also include means for measuring the quietest sampled noise in the monitoring period and means for outputting a ranked indication of the quietest sampled

noise. The basis for ranking the quietest and the most persistent noise indications can be on the basis of the measured values. The basis for ranking the most persistent noise indications can also be on the basis of the "lower sample concentration" of noise samples, by which is meant the dB extent of the samples from the quietest noise to the most persistent noise; the steepness of the distribution curve and the skewing of the distribution of noise samples.





EUROPEAN SEARCH REPORT

Application Number

EP 01 20 0968

Category	Citation of document with indication of relevant passages	ation, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)	
Y	PATENT ABSTRACTS OF J. vol. 1998, no. 08, 30 June 1998 (1998-06 & JP 10 068668 A (OKI TOKYO METROPOLIS), 10 March 1998 (1998-0 * abstract *	1	G01M3/24		
Y	DE 39 11 648 A (IMD I MESSTE) 11 October 19 * column 3 - column 5	90 (1990-10-11)	1		
A	EP 0 300 460 A (TOKYO CO) 25 January 1989 (* column 4 - column 1	1989-01-25)	1		
A	WO 00/04359 A (HORTON V (US)) 27 January 20 * claims 1-26 *	INC ; RADOMSKI JAMES 00 (2000-01-27)	1		
A	US 5 780 724 A (OLEND AL) 14 July 1998 (199 * column 3 - column 1	1-14	TECHNICAL FIELDS SEARCHED (Int.CI.7)		
A,D	GB 2 335 041 A (PALME 8 September 1999 (199 * claims 1-21 *		1		
Α	EP 0 697 586 A (GEN E 21 February 1996 (199 * page 5 - page 13 *		1-11		
A	PATENT ABSTRACTS OF J vol. 1999, no. 09, 30 July 1999 (1999-07 & JP 11 094684 A (SAK 9 April 1999 (1999-04 * abstract *	-30) AMOTO KAZUHIKO),	1		
	The succession and has been	•			
	The present search report has been	Date of completion of the search	L.,	Examiner	
	Berlin	16 January 2004	Die	etrich, A	
X : part Y : part docu	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with another unent of the same category nological background	T : theory or principle E : earlier patent doci after the filing date D : document cited in L : document cited fo	ument, but publis the application rother reasons	shed on, or	
O:non	-written disclosure rmediate document	& : member of the sa			



EUROPEAN SEARCH REPORT

Application Number EP 01 20 0968

ategory	Citation of document with indication of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)	
1	PATENT ABSTRACTS OF JAPA vol. 0170, no. 54 (P-144 3 February 1993 (1993-03 & JP 4 265832 A (TOSHIBA 22 September 1992 (1992 * abstract *	30), 2-03) A CORP),			
				TECHNICAL FIELDS SEARCHED (Int.CI.7)	
	The present search report has been dra	awn up for all claims			
	Place of search	Date of completion of the search	Τ	Examiner	
Berlin CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document		E : earlier patent documenter the filing date D : document cited in the	T : theory or principle underlying the inventio E : earlier patent document, but published on		
		**: member of the same patent family, corresponding document			

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 20 0968

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16-01-2004

Patent document cited in search report	j	Publication date		Patent family member(s)		Publication date
JP 10068668	Α	10-03-1998	NONE			<u> </u>
DE 3911648	Α	11-10-1990	DE	3911648	A1	11-10-199
EP 0300460	Α	25-01-1989	JP JP JP JP DE EP KR US	5002934 1025026 2070738	C B A C B D1 A1 B1	27-01-198 28-10-199 13-01-199 27-01-198 10-07-199 02-08-199 17-06-199 25-01-198 09-03-199 18-09-199
WO 0004359	Α	27-01-2000	US AU CA EP JP WO	6507790 5315699 2337000 1097362 2002520614 0004359	A A1 A1 T	14-01-200 07-02-200 27-01-200 09-05-200 09-07-200 27-01-200
US 5780724	A	14-07-1998	AU BR EP JP WO	6583098 9808081 0970358 2001519903 9844327	A Al T	22-10-199 08-03-200 12-01-200 23-10-200 08-10-199
GB 2335041	A	08-09-1999	EP GB GB GB HK HK HK US	2361319 2361540 2361541 1022013 1041514 1041515 1041516 1041517	A ,B A ,B A ,B A1 A1 A1 A1 A1 A1	08-09-199 10-10-200 17-10-200 24-10-200 17-05-200 27-09-200 27-09-200 27-09-200 27-09-200 27-09-200 28-11-200
EP 0697586	Α	21-02-1996	US EP JP	5533383 0697586 3053163	A2	09-07-199 21-02-199 19-06-200

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 20 0968

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16-01-2004

Patent document cited in search report			Publication date		nt family nber(s)	Publicatio date	
JP	11094684	Α	09-04-1999	NONE			
JР	4265832	Α	22-09-1992	NONE			
			ficial Journal of the Euro				